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Spectrum Engineering (Firm)
Benbow Maintenance Project, section 25, T5S, R15E; Sections 21, 30,

FINAL REPORT

BENBOW MAINTENANCE PROJECT
Section 25, T5S, R15E;
Sections 21, 30, 31, T5S, R16E
Stillwater County, Montana
DSL - AMRB No. 94-M04

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FINAL REPORT

BENBOW MAINTENANCE PROJECT
Section 25, T5S, R15E;
Sections 21, 30, 31, T5S, R16E
Stillwater County, Montana
DSL - AMRB No. 94-M04

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BENBOW MAINTENANCE PROJECT

1. INTRODUCTION

1.1 Project Description

The work will consist of, but not be limited to, providing all labor, materials, earthwork, and incidentals necessary to probe and backfill mine subsidence holes; close a mine adit; repair a fence, repair sheeting on a wood headframe structure, backfill openings in a mill foundation, and the revegetate all reclaimed areas.

The objective of the proposed work is to perform maintenance on hazardous mine openings associated with chrome mining and processing. There are four small openings in the mill foundation at the Benbow Mill Site that will be filled with approximately 11 cubic-yards of material from a nearby borrow site. At the Benbow Mine Site barbed-wire must be restrung on two 100-foot sections of fence, three sections of plywood sheeting must be replaced on an ore bin, an open adit must be closed, and 15 subsidence holes must be backfilled. Backfill at the Benbow Mine Site will be obtained by borrowing from adjacent areas. After the disturbed area has been regraded, seed and fertilizer will be broadcast. Mulch will not be applied at either site. The adit closure will require approximately 75 cubic-yards and subsidence backfilling will require approximately 6800 cubic-yards. Access to the subsidence holes will be off-road travel requiring tracked equipment.

1.1.1 Location and Access

The Benbow Mine site is located in Section 25 of T5S, R15E and Sections 30 and 31 of T5S, R16E. The headframe latitude is 45°21.9' and the longitude is 109°48.3'. The mine site is found on the 7½ minute USGS quadrangle Mount Wood, Montana at an elevation of approximately 8500 feet MSL.

The Benbow Mill site is located in Section 21 of T5S, R16E. The mill latitude is 45°23.3' and the longitude is 109°45.9'. The mill site is found on the 7½ minute USGS quadrangle Nye, Montana at an elevation of approximately 5800 feet MSL.

The two project sites are located in south-central Montana approximately 100-miles southwest of Billings in Stillwater County. The project area can be accessed by leaving Interstate 90 at Columbus and proceeding on a paved two lane highway from Columbus to Absarokee to Fishtail and then to Dean. You leave the paved road (taking a left at Montana Hanna's) at Dean and proceed 4.2-miles to the Benbow Mill. Proceeding another 6-miles on a switchback gravel road, you reach the Benbow Mine. Access to the site is shown on the Vicinity Access Map on the Site Plan and General Layout sheets.

1.1.2 Land Ownership

Surface and mineral ownership of the site is as follows:

Ownership Location	Landowner/Contact
Benbow Mill Site NW¼ of Section 21, T5S, R16E Stillwater County	U.S. Forest Service Custer National Forest Attn. George Weldon Box 3420, Route 2 Red Lodge, MT 59068 406-446-2103 with Mineral Claimant Chrome Corp. Intl. c/o John Sellar 12640 W. Cedar Dr. Suite B Lakewood, CO 80228 303-969-8903
Benbow Mine Site Section 25, T5S, R15E Section 30, T5S, R16E Section 31, T5S, R16E (on patented mining claims named Big Seven, Majestic, Titanic, Black Rock, Eclipse, Lucky Strike and War Eagle)	Benbow Mines Ltd. c/o Ben Berg Jr. 910 Technology Blvd. #A Bozeman, MT 59715 406-586-6914

1.1.3 History

The mine site on top of the mountain was mined for chrome ore during World War II. In 1990, an Abandoned Mine Reclamation project abated many of the mine related hazards at this site. However, due to the nature of the ore vein and the mining system that was employed, much of the original subsidence backfill got hung-up on timbering in the stopes. With continued subsurface caving and the periodic collapse of mine timbers, many of the areas that were originally filled have continued to subside. The original project also erected several fences and sealed an ore bin with plywood sheeting. These items are in need of maintenance. In addition, a mine adit which had been plugged by the original mine operator has now caved along the roof creating an inclined opening into the adit from the end of the subsidence feature.

The mill site at the base of the mountain consists of a large concrete mill foundation and related foundation remains left when the U.S. Government abandoned the Benbow Mill in June of 1943. In 1990, an Abandoned Mine Reclamation project filled many of the chambers in the foundation that were used for equipment access, conveyor galleries, and sumps. Four of the backfilled areas along conveyor galleries have subsided since the project was completed and require maintenance.

1.2 Project Objectives/Site Problems

The project objective is to perform maintenance work on a chrome mine and mill previously reclaimed under the abandoned mine land program. The work at each of these two sites is described below:

BENBOW MILL SITE.

Mill Foundation Backfill - The Contractor will be required to backfill each of these cavities to the level of the original fill. It is estimated that a total of 11 cubic-yards of fill material will be required. Hole #1 will need 2 cubic-yards. Hole #2 will require 5 cubic-yards. Hole #3 and Hole #4 will each need 2 cubic-yards. The borrow site designated on the site plan is located approximately 500 feet from the farthest hole. A wheel loader can easily access and travel across the foundation to the fill areas. However, the backfill will need to be pushed into the foundation chambers with a backhoe. No revegetation will be required on the backfilled areas. The borrow area will be rough graded and blended with the surrounding topography. Regraded slopes on the borrow area will not exceed 1.5H:1V. This work will generally conform to the requirements of Technical Specification 430 Subsidence Grading and Backfilling.

Seed and Fertilize - The Contractor will broadcast seed the borrow area at the rate of 46 pounds of Pure-Live-Seed per acre and fertilize the borrow area at the rate of 92.5 pounds per acre. It is anticipated that the borrow area will be less than 0.01 acre. Mulch will not be required. General specifications for seeding and fertilizing are cited in Technical Specification 320 Fertilizing and Seeding.

BENBOW MINE SITE

The location of each of these features and a summary of the required maintenance are indicated on the site plan.

Repair Fence - The barbed wire attached to two sections of AML Type F-4M farm fence has been broken and stripped from the metal posts. One section of fence requiring maintenance is located at the ore bin and the other section is situated along the road above the upper waste dump. These locations are shown on the site plan. Other elements of the planned work are located near these fences; so, access into these areas may be improved by postponing fence repair until other nearby work elements have been completed.

The Contractor will be required to splice and stretch the wire. The wire will be attached to the metal and wood posts using appropriate fasteners supplied by the Contractor. Any additional wire required to repair the fence will be supplied by the Contractor. Repair fence will be bid at a unit cost per foot and will be paid by measuring the repaired sections. It is estimated that 200-feet of fence will be repaired. General specifications for this work are provided in Technical Specification 520 Farm Fence.

Repair Sheeting on Ore Bin - Three sections of ½-inch plywood sheeting that were installed on the ore bin to prevent access have been removed and must be replaced. One section covered an entry that is about 8-feet above ground level. This section will require about 1¼ sheets (4' x 8') of plywood. The other two sections are situated along the base of the structure. These sections will require approximately 3 sheets of plywood to complete the repair. Some excavation will also be required to expose the wood frame. Plywood sheets will be 40/20 CDX and will be attached to the structure with 2" wood screws. After the sheets of plywood have been replaced along the base of the structure, the Contractor will be required to place fill along the bottom portion of the repaired sections. The fill should extend 2½ feet up the side of the ore bin and slope to the ground at 1½H:1V. It is estimated that 3 cubic-yards of fill will be used. The large waste dump located adjacent to the ore bin will be used as the source of fill material.

Close Adit - The Number 2 Level Adit above the middle waste dump will be closed. In order to prepare the adit for closure, it will be necessary to dig-out the face-up area and expose the open portion of the adit. Mine timbers, lagging, rock, and debris in the outer portion of the adit will be removed. Mine timbers and other trash removed from the opening will be stacked on the dump. It is estimated that 20-25 feet of adit will need to be dug-out. Over most of this distance the roof of the adit is exposed; however, near the end 4-5 feet of cover will need to be excavated. The 6' x 4' opening is timbered and covered with planks on the side and roof.

After the opening has been exposed, material excavated from the sides of the face-up area will be used to install a 5-foot long backfill plug in the adit entrance. This plug will extend from the brow of the opening, 5-feet into the adit. This 5-foot length specification will be measured along the roof. The bottom of the plug may extend along the floor as much as 13-feet into the adit. It is estimated that the plug portion of the closure will require 8 cubic-yards. The mine closure will also require backfilling the face-up cut. It is estimated that the plug and backfill will require 70 cubic yards of fill. At the brow of the opening, the backfill in the face-up cut must extend a minimum of 6-feet above the roof of the adit and must slope down at not more than 1.5H:1V. The backfilled area will be blended into the surrounding contours; however, the trees around the opening will not be disturbed.

General requirements for this work are provided in Technical Specification 410 Close Mine Opening.

Subsidence Backfilling - Two groups of subsidence holes totalling 15 openings will be backfilled using material excavated from adjacent or nearby areas. Although the Contractor will be responsible for selecting borrow areas, it is anticipated that adequate borrow sources can be located near fill areas. Cut and fill areas will be blended with the surrounding contours in a manner that provides positive drainage. Recontoured areas will be graded with maximum 2½H:1V slopes. The location of each subsidence hole is shown on the site plans. It is estimated that backfill requirements, assuming the openings are filled to the existing surface, will be 6800 cubic-yards.

One group of subsidence holes is located in the stoped area near the top on Chrome Peak. This group consists of seven (7) openings which stretch over a distance of 2200 feet. The dimensions and estimated yardage for each of these openings are as follows:

Shaft 2	12' wide x 9' long x 12' deep	50 cubic yards
Hole B1	14' wide x 45' long x 20' deep	467 cubic yards
Hole B2	28' wide x 38' long x 10' deep	394 cubic yards
Hole D	16' wide x 50' long x 12' deep	356 cubic yards
Hole G1	15' wide x 30' long x 10' deep	167 cubic yards
Hole G2	15' wide x 15' long x 10' deep	83 cubic yards
Hole H	14' wide x 50' long x 8' deep	208 cubic yards

The other group of subsidence holes is located in the stoped areas on a peak located approximately one-half mile southeast of the mine yard. This group lies on the south and east sides of Little Rocky Creek. It consists of eight (8) openings which stretch over a distance of 1100 feet. Access to this group is on a branch of the mine access road which follows the Little Rocky Creek drainage toward Chrome Lake. The access route is shown on the site plan. The dimensions and estimated yardage for each of these openings are as follows:

Shaft 6	10' wide x 10' long x 8' deep	30 cubic yards
Hole M	28' wide x 50' long x 50' deep	2595 cubic yards
Hole N	40' wide x 40' long x 15' deep	889 cubic yards
Hole O	30' wide x 75' long x 15' deep	1250 cubic yards
Hole P1	10' wide x 10' long x 100' deep	37 cubic yards
Hole P2	5' wide x 5' long x 4' deep	4 cubic yards
Shaft 9	6' wide x 10' long x 100' deep	255 cubic yards
Hole Q	10' wide x 10' long x 4' deep	15 cubic yards

This work will generally conform to the requirements of Technical Specification 430 Subsidence Grading and Backfilling.

Probe Openings - Prior to backfilling Hole B1, Hole M and Shaft 9, these openings will be probed to prepare the opening for backfilling. Probing the opening will be accomplished by digging out mine timbers that support undermined areas or prevent effective backfilling. Probing will also be used to enlarge the surface opening and to

collapse choked areas. Mine timbers and other debris that may be removed will be collected and hauled to the mine yard where it will be stacked near the ore bin. A backhoe or excavator with a long reach and a 1-2 yard bucket would be well suited for this operation. Probe openings includes all excavation, replacement and disposal.

Seed and Fertilize - All disturbed areas will be seeded by the broadcast method. These areas will be seeded using an application rate of 46 pounds of pure live seed per acre. Fertilizer will be applied at the rate of 92.5 lbs/acre. Because no coversoil is available and regraded surfaces will have a rough rocky texture, seedbed preparation and mulching will not be required. The applicable requirement for this site is to spread seed and fertilizer at the appropriate rates and to run a tracked vehicle over the seeded areas.

2. RESPONSIBLE PARTIES

2.1 Contractor

The successful low bidder was Baxter Construction. Their address is shown below:

Baxter Construction
4014 Hardin Road
Billings, Montana 59101
Phone: 406/259-6404
MT Contractor's License: 4884A

2.2 Reclamation and Engineering Plan

Spectrum Engineering was assigned the responsibility of preparing the reclamation and engineering specifications prior to contractor selection. Spectrum's address is shown below:

Spectrum Engineering
1413 4th Avenue North
Billings, Montana 59101
Phone: 406/259-2412

Initial engineering included a site visit and field measurement and photographs of the new subsidence. Then a bid package was developed to address the hazards found.

2.3 Quality Control Inspection

Spectrum Engineering performed the quality control inspection. The project engineer was Bill Maehl and the construction inspector was Hank Lowe.

2.4 AMRB Coordination

The AMRB Project Manager was Joel Chavez, Montana Department of State Lands, Abandoned Mine Reclamation Bureau.

3. CHRONOLOGICAL LISTING OF EVENTS

3.1 Pre-Bid Conference

The pre-bid conference was held on Wednesday, August 24th, 1994 at the Benbow Mine and Mill project sites. Representatives from Debuff Drilling, Hallet Reclamation, Weeden Construction, Donnes Construction, and Baxter Construction were present for the pre-bid conference. In addition, Vern Heisler and Hank Lowe from Spectrum Engineering were present to conduct the pre-bid.

3.2 Bid Date

The bid opening date was Friday, September 2nd, 1994.

3.3 Three Lowest Bids

There were 3 bidders on this project with bids ranging from $18,923.20 to $23,200.00. The engineer's estimate was $32,375.00. The bid tabulations have been included in ATTACHMENT 1. The three bidders are listed below.

Baxter Construction	Hallett Reclamation	Donnes Construction
Billings, Montana	Livingston, Montana	Shepherd, Montana
$ 18,923.20	$ 23,176.00	$ 23,200.00

3.4 Contract Award/Notice of Award/Notice to Proceed

The contract was awarded to the low bidder (Baxter Construction) after receiving all of their bonds and other required paper-work. The Agreement was signed by DSL on September 22nd, 1994.

The Notice to Proceed was issued on October 4th, 1994. Baxter Construction performed all of the earthwork, mine closures, and revegetation. The work started on October 10th, 1994 immediately following the pre-construction meeting (conducted by Hank Lowe from Spectrum with Ed Baxter). The contractor used 6 of the 30 allowed calendar days, completing the work on October 15th, 1994.

3.5 Construction Start-up

The Contractor started mobilizing his equipment to the site on October 10th, 1994.

3.6 Change Orders

There was one change order written for this project. A copy of this change order is included in this report as ATTACHMENT 2. Change order number 1 was for final quantities adjustment which added a total of $242.55 to the original contract price bringing the total to $19,165.75.

3.7 Work Stoppages

There were no work shut-downs.

3.8 Requests for Payment

There was one payment request on this project. Pay Request 1 (final) was for the period from job start on October 10th, 1994 through job completion on October 15th, 1994. The amount completed for this pay request was $19,165.75.

3.9 Substantial Completion

The date of Substantial Completion was October 15th, 1994.

3.10 Final Completion and Approval

The AMRB field inspection has not been completed due to snow. The Final Completion date is one year from the Substantial Completion date or October 15th, 1995.

3.11 Final Payment

Final payment was made to the Contractor in October, 1994. A copy of the final payment request has been included in ATTACHMENT 3.

4. CONSTRUCTION

4.1 Description of Project Plan

The initial work plan proposed under Section 1.2 Project Objectives was followed without variation. All work was completed in a timely manner.

4.2 Major Equipment List

Type	Make/Model	Size/Horsepower	No. on Job
Track loader	John Deere 755	2¼ yd - 152 hp	1

4.3 Contractor Employees

The number of contractor employees on the job varied from 1 to 2.

4.4 Construction Activities

The project began with a pre-construction meeting on October 10th, 1994 with Ed Baxter from Baxter Construction and Hank Lowe from Spectrum Engineering.

On October 11th Baxter filled in the holes at the Mill and mobilized to the top of the mountain. He then backfilled Holes D, G1, G2 and H on the northwest side of Chrome Peak.

It started snowing on October 12th. During the 12th, Baxter pulled the timber out of Holes B1 and B2 and then backfilled them. Then he backfilled Shaft #2. Baxter probed the #2 Level Adit and backfilled it. He then mobilized to the east side and started backfilling Hole M. The fuel filter plugged on his loader and work stopped for today.

On October 13th, Baxter finished backfilling Hole M. He then backfilled Hole N. Shaft #9 was probed and backfilled. Holes O, P1, P2, and Q were also backfilled.

On October 14th, Baxter seeded and fertilized all disturbed areas. He fixed the fence on the top side and put the rocks back on the road on the east side. He also backfilled on the south side of the headframe.

On October 15th, Baxter repaired the headframe with plyboard and backfilled. Then he fixed the fence on the north and east sides. This completed all of the tasks at the two site areas.

4.5 Quantities Used

No disputes were raised by the Contractor about the estimated quantities. The construction inspector's quantities matched the Contractor. The project was very straight-forward and provided little room for confusion or Contractor questions.

Item	Amount	Unit Cost
Mobilization	2 areas	$2,737.00/area
Backfill at Mill Foundation	11 cubic yards	23.86/cubic yard
Close Adit	78 cubic yards	6.46/cubic yard
Repair Sheeting on Ore Bin	N/A	448.00/unit
Repair Fence	431 feet	1.05/foot
Backfill Subsidence Holes	6,800 cubic yards	1.51/cubic yard
Probe Openings	3 sites	329.00/site
Revegetate	1.01 acres	770.00/acre

5. PAYMENT REQUESTS

5.1 Pay Request

One pay request was processed for this project as addressed under Section 3.8 above. A copy of this pay request has been included in ATTACHMENT 3.

5.2 Cost per Site

Benbow Maint.	Disturbed Acres	Cost/Acre	Total Project Cost
Benbow Mill	0.01	$218,610.00	$ 2,186.10
Benbow Mine	1.00	16,979.65	16,979.65
AMRB No. 94-M04	1.01	$18,975.99	$19,165.75

5.3 Total Project Cost

The original bid was $18,923.20 and one change order was issued adding a total of $242.55 bringing the total construction cost to $19,165.75. The total engineering cost for the project was $10,380.17. An analysis of the engineering costs versus construction costs is presented in ATTACHMENT 4.

6. PROJECT SUMMARY

6.1 Summary of Project

The project was completed quickly without any problems. Baxter Construction does a good job and is easy to work with. All subsidence holes were backfilled and mounded. Due to the method of mining, some future subsidence is likely and yearly monitoring is recommended.

6.2 Site Condition after Completion

The work was completed per the construction plans with the exception of the fence length requiring repair which was increased. The entire site looked good upon completion.

6.3 Maintenance or Follow-up

Every year this site should be checked for future subsidence. The stope holes were initially upwards of 100 to 300 feet deep prior to the 1990 reclamation effort with many of these containing timber which could not be removed safely. There will continue to be some subsidence over time.

6.4 Bid Package (Construction) Drawings

The bid package contained five Site Plan sheets covering the work at these two sites. These are located in ATTACHMENT 5 at the back of the final report. These plans represent the reclamation engineering design (the plans from which the contractors bid the work).

6.5 As-Built Drawings

The original Site Plan sheets were modified to reflect as-built final reclamation construction. These are the same plans presented in ATTACHMENT 5 right before the photographs. A complete set of post-construction drawings are included in the appendix of this report.

7. COMMENTS/SUGGESTIONS

This maintenance job required minimal engineering. Existing site plans were used with modifications. The construction inspector took all of the initial site measurements and conducted the pre-construction meeting, further reducing costs.

The only potential problem was getting the contractor to the site to start work. If was snowing heavily on the final day while repairing the fence. If he had been a few days slower, it would not have been completed until spring (after snow melt).

On a small job like this with measurable holes, it was easier to bid the subsidence backfilling lump sum. This eliminated the almost impossible job of determining how much fill was dozed into each opening (short of expensive pre- and post-surveying).

8. PHOTOGRAPHS/SLIDES

8.1 Listing

The description of the photographs taken to document the work performed is found at the back of the final report under ATTACHMENT 5. Each picture is numbered on the front and has a generic label on the back. Following the photo descriptions are the photographs themselves. The two bound final reports contain photographs and the unbound original report contains slides.

8.2 Photo Location Maps

The location where the photos were taken and their orientation are shown on the as-built plan sheets located in ATTACHMENT 5 at the back of the report.

8.3 Photos/Slides

The photographic documentation of the project includes both prints and slides.

A sequence of photographs documenting the construction activities begins immediately following the photo location maps found in ATTACHMENT 5 at the back of the report.

ATTACHMENT 1

BID TABULATIONS

BENBOW MAINTENANCE PROJECT
Stillwater County, Montana

DSL/AMRB 94-M04
September 2, 1994

BID TABULATIONS				ENGINEER'S ESTIMATE		BAXTER CONSTRUCTION		HALLETT RECLAMATION		DONNES CONSTRUCTION	
Item Number	Estimated Quantity	Unit	Description	Unit Price	Total Price						
1.	1	LS	Mobilization - Benbow Mill Site		0.00	1915.90	1,915.90	3,855.00	3,855.00	200.00	200.00
	1	LS	Mobilization - Benbow Mine Site		0.00	3558.10	3,558.10	2,230.00	2,230.00	3,000.00	3,000.00
2.	1	LS	Mill Foundation Backfill - Benbow Mill Site		0.00	262.50	262.50	1,265.00	1,265.00	500.00	500.00
3.	1	LS	Close Adit - Benbow Mine Site		0.00	504.00	504.00	1,935.00	1,935.00	1,000.00	1,000.00
4.	1	LS	Repair Sheeting on Ore Bin - Benbow Mine Site		0.00	448.00	448.00	835.00	835.00	500.00	500.00
5.	200	Foot	Repair Fence - Benbow Mine Site		0.00	1.05	210.00	1.87	374.00	2.50	500.00
6.	1	LS	Subsidence Backfilling - Benbow Mine Site		0.00	10260.00	10,260.00	10,310.00	10,310.00	15,000.00	15,000.00
7.	1	LS	Probe Openings-Benbow Mine Site		0.00	987.00	987.00	1,710.00	1,710.00	500.00	500.00
8.	0.01	Acre	Fertilize and seed-Benbow Mill Site		0.00	770.00	7.70	6,200.00	62.00	100,000.00	1,000.00
	1.00	Acre	Fertilize and seed -Benbow Mine Site		0.00	770.00	770.00	600.00	600.00	1,000.00	1,000.00
					??		18,923.20		23,176.00		23,200.00

BENBOW MAINTENANCE PROJECT
MT DSL-AMRB No. 94-M04

ENGINEER'S ESTIMATE
JULY 26,1994

Item No.	Estimated Quantity	Unit	Description	Unit Price	Total Price
1.			MOBILIZATION		
	1	LUMP SUM	BENBOW MILL SITE	XXXX	$ 700.00
	1	LUMP SUM	BENBOW MINE SITE	XXXX	$ 6,000.00
2.			MILL FOUNDATION BACKFILL		
	1	LUMP SUM	BENBOW MILL SITE	XXXX	$ 800.00
3.			CLOSE ADIT		
	1	LUMP SUM	BENBOW MINE SITE	XXXX	$ 800.00
4.			REPAIR SHEETING ON ORE BIN		
	1	LUMP SUM	BENBOW MINE SITE	XXXX	$ 400.00
5.			REPAIR FENCE		
	200	FOOT	BENBOW MINE SITE	0.75	$ 150.00
6.			SUBSIDENCE BACKFILLING		
	1	LUMP SUM	BENBOW MINE SITE	XXXX	$ 22,500.00
7.			PROBE OPENINGS		
	1	LUMP SUM	BENBOW MINE SITE	XXXX	$ 600.00
8.			FERTILIZE AND SEED		
	0.01	ACRE	BENBOW MILL SITE	2500.00	$ 25.00
	1.00	ACRE	BENBOW MINE SITE	400.00	$ 400.00

TOTAL: $ 32,375.00

Thirty Two Thousand - Three Hundred - Seventy Five and 00/100 DOLLARS
(Price in Words)

ATTACHMENT 2

CHANGE ORDERS

CHANGE ORDER

ORDER NO. 1 - FINAL

PROJECT TITLE: Benbow Maintenance Project

MONT A/E or DSL-AMRB: 94-M04

CONTRACT DATE: September 22, 1994

OWNER: Department of State Lands, Abandoned Mine Reclamation Bureau

CONTRACTOR: Baxter Construction

Change Orders must be accompanied by an itemized cost breakdown. You are hereby requested to comply with the following changes from the Contract Documents. (Show separate costs for materials, labor, equipment, and miscellaneous. Show percent where applicable.)

ITEM NO.	DESCRIPTION OF CHANGES - ESTIMATED QUANTITIES & UNITS	COST OF CHANGES					TOTAL COST
		Mat'ls	Labor	Equip	Misc.	TOTAL UNIT COST	
5.	231 Feet of additional fence repaired (bid at $1.05/Foot)					242.50	242.55
	TOTAL COST - MATERIALS, LABOR, EQUIPMENT & MISC.						242.55
	OVERHEAD & PROFIT @ _____%						INC.
	GRAND TOTAL - THIS CHANGE ORDER						$ 242.55

Original Contract Price $ 18,923.20

Current Contract Price Adjusted by Previous Change Orders $ 18,923.20

Cost this Change Order (+ or -) + $ 242.55

New Contract Price including this Change Order $ 19,165.75

The completion date as set forth in the Contract Documents shall be ([✓ unchanged], increased, decreased) by 0 calendar days.

The date for completion of all work will be 10/15/1994.

Description and Justification for Change:

Bid items changes described on reverse side are for quantity adjustments to existing bid items.

SURETY CONSENT

The Surety hereby consents to the aforementioned Contract Change Order and agrees that its bond or bonds shall apply and extend to the Contract as thereby modified or amended per this Change Order. The Principal and the Surety further agree that on or after execution of this consent, the penalty of the applicable Performance Bonds or Bonds is hereby increased by $ 242.55 (100% of the Change Order amount) and the penalty of the applicable Labor and Material Bond or Bonds is hereby increased by $ 242.55 (100% of the Change Order amount).

COUNTERSIGNED BY MONTANA RESIDENT AGENT	SURETY
HOINESS LaBAR INSURANCE, INC.	TIG Premier Insurance Company.
Countersigned by: Dennis P. Gambill	By: Dennis P. Gambill
Montana Resident Agent	Seal Dennis P. Gambill, Attorney-in-fact

Recommended by: Spectrum Engineering William MacDell 10/18/94
Engineer Date

Accepted by: Baxter Construction Ed Baxter 10-18-94
Contractor Date

Approved by: Vic R Andersen 10/20/94
Owner Date

OK
10/19/94

CONSENT OF SURETY COMPANY TO FINAL PAYMENT

(From AIA Document G707)

OWNER ☐
ENGINEER ☐
CONTRACTOR ☐
SURETY ☐
OTHER

PROJECT: Benbow Maintenance , Stillwater County Montana
(name, address)

TO (Owner)

Department of State Lands
Abandoned Mine Reclamation Bureau
1625 11th Avenue
P.O. Box 201601
Helena, Montana 59620-1601

MONT A/E or DSL-AMRB NO.: 94-M04

CONTRACT FOR:

CONTRACT DATE: 9-22-94

CONTRACTOR:

In accordance with the provisions of the contract between the Owner and the Contractors indicated above,

the TIG Premier Insurance Company, SURETY COMPANY, on bond
(here insert name and address of Surety Company)
of Baxter Construction, CONTRACTOR, hereby approves of the final
(here insert name and address of Contractor)
payment to the Contractor, and agrees that final payment to the Contractor shall not relieve the Surety Company of any of its obligations to DSL-AMRB, OWNER, as set
(here insert name and address of Owner)
forth in the said Surety Company's bond.

IN WITNESS WHEREOF, the Surety Company has hereunto set its hand this 18th day of October, 1994.

TIG Premier Insurance Company
Surety Company

Attest:
(Seal)

BY:
Signature of Authorized Representative

Dennis P. Gambill, Attorney-in-fact
Title

NOTE: This form is to be used as a companion document to the Affidavit on Behalf of Contractor (current edition).

ATTACHMENT 3

PAYMENT REQUESTS

PAYMENT REQUEST NO. 1 - FINAL

FROM 10/10/1994 TO 10/16/1994

PROJECT TITLE: BENBOW MAINTENANCE PROJECT

LOCATION: STILLWATER COUNTY MONT A/E or DSL-AMRB: 94-M04

NAME OF CONTRACTOR: BAXTER CONSTRUCTION

ADDRESS: 4014 HARDIN ROAD, BILLINGS, MT 59101

SUMMARY OF PROJECT STATUS

Amount of Original Contract		$ 18,923.20
Change Order No. 1	$ 242.55	
Change Order No. ____	$	
Change Order No. ____	$	
Amount of Approved Change Order(s)		$ 242.55
TOTAL CONTRACT AMOUNT		$ 19,165.75

Pay Request No.	Amount of Request
1	$ 19,165.75

Total Contract Amount Completed to Date	$ 19,165.75
Less Retainage (0 %)	$ 0.00
TOTAL AMOUNT EARNED TO DATE	$ 19,165.75
Less Previous Payments	$ 0.00
AMOUNT DUE THIS PAYMENT	$ 19,165.75
Less 1% Tax	$ 191.66
TOTAL DUE CONTRACTOR	$ 18,974.09

I certify that this claim is correct and just in all respects and that payment or credit has not been received.

BAXTER CONSTRUCTION
Contractor

By

Date 10-18-94

RECOMMENDED BY:

SPECTRUM ENGINEERING
Engineer

By

Date 10/18/94

ok

APPROVED BY: 10/19/94

DEPARTMENT OF STATE LANDS, ABANDONED MINE RECLAMATION BUREAU
Owner

By ____________________

Date ____________________

RESP. CNTR. 95 0002-01 30131 F
OBJ. EXP. 2121
APPROVAL
DATE 10/20/94 Rev. 3/91

Item No.	Description	Contract Quantity	Contract Unit Price	Previous Quantity Requested	Current Quantity Completed	Total Quantity Completed to Date	Total Contract Amount Completed to Date	Amount Due this Payment
1.	Mobilization	1 LS						
	Benbow Mill		1915.90	0	1	1	1915.90	1915.90
	Benbow Mine		3558.10	0	1	1	3558.10	3558.10
2.	Mill Foundation Backfill	1 LS	262.50	0	1	1	262.50	262.50
3.	Close Adit - Mine Site	1 LS	504.00	0	1	1	504.00	504.00
4.	Repair Sheeting On Ore Bin	1 LS	448.00	0	1	1	448.00	448.00
5.	Repair Fence	200 FT	1.05	0	431	431	452.55	452.55
6.	Subsidence Backfill- Mine Site	1 LS	10260.00	0	1	1	10260.00	10260.00
7.	Probe Openings- Mine Site	1 LS	987.00	0	1	1	987.00	987.00
8.	Fertilize & Seed							
	Mill Site	0.01 Acre	770.00	0	0.01	0.01	7.70	7.70
	Mine Site	1.00 Acre	770.00	0	1.00	1.00	770.00	770.00
	Materials on Site (Attach Schedule)	--	--	$	$	--	0.00	$0.00
	TOTALS						$19165.75	$19165.75

ATTACHMENT 4

ANALYSIS OF CONSULTANT COSTS INCURRED

ANALYSIS OF CONSULTANT COSTS INCURRED FOR THE MONTANA DEPARTMENT OF STATE LANDS ABANDONED MINE RECLAMATION BUREAU

AMR PROJECT NUMBER: DSL-AMRB 94-M04
BENBOW MAINTENANCE PROJECT

DATE OF PREPARATION: NOVEMBER 30th, 1994

ENGINEERING SERVICE	AMOUNT
DESIGN ENGINEERING:	$ 4,676.84
CONSTRUCTION ENGINEERING AND PROJECT ADMINISTRATION COST:	$5,703.33
TOTAL PROJECT ENGINEERING COST:	$ 10,380.17
CONSTRUCTION COST:	$ 19,165.75

PERCENTAGE ENGINEERING FEES TO CONSTRUCTION COST:

DESIGN ENGINEERING/CONSTRUCTION COST	24.40%
CONSTRUCTION ENGINEERING/CONSTRUCTION COST	29.76%
TOTAL PROJECT ENGINEERING COST/CONSTRUCTION COST	54.16%

REMARKS: Services provided included landowner contact, basic engineering and reclamation design, bid document preparation, pre-bid and pre-construction meetings, construction staking, contract administration, quantity accounting, full time construction/reclamation inspection and final report preparation and project close-out.

ATTACHMENT 5

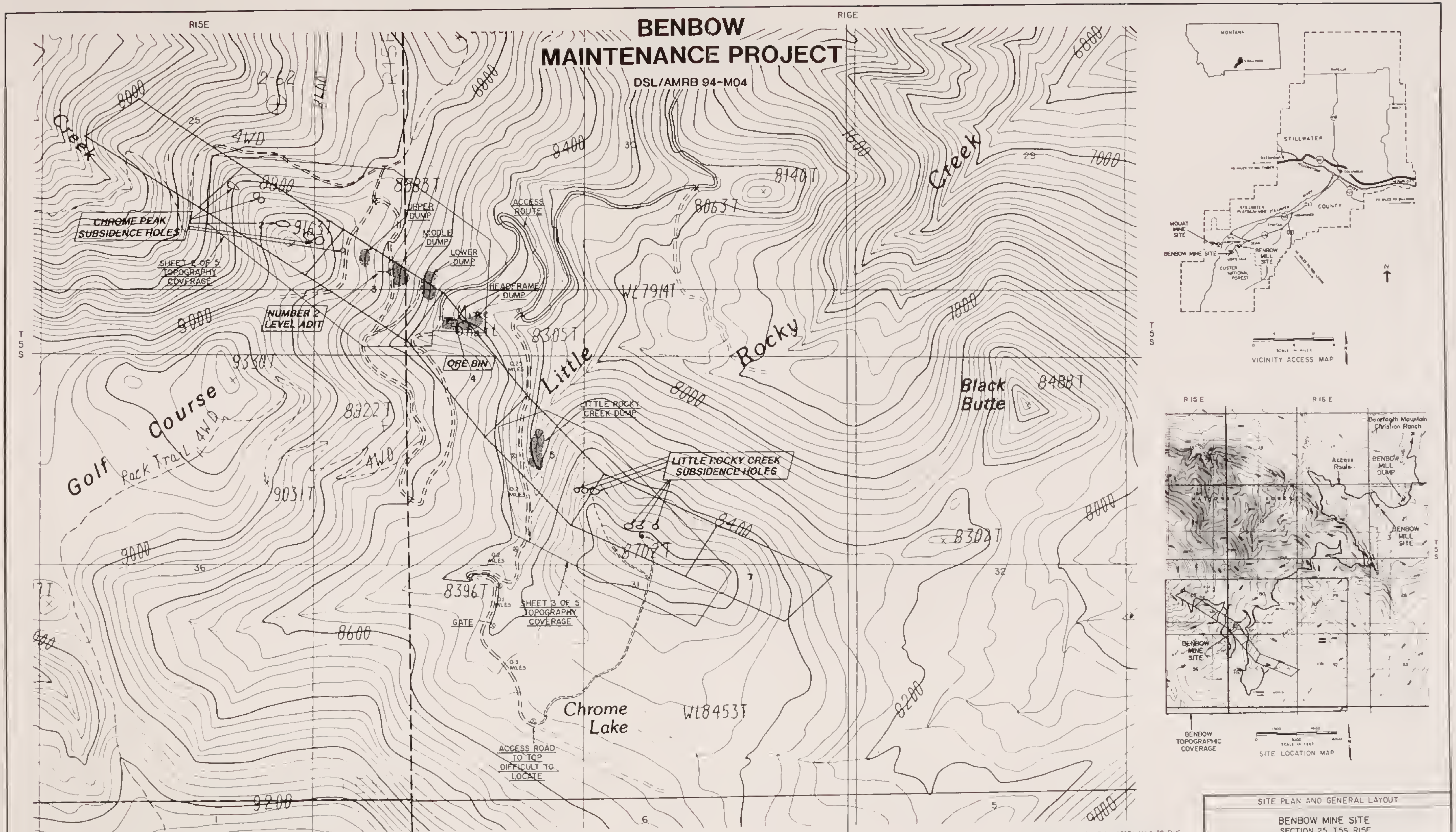
AS-BUILT DRAWINGS

AND

PHOTO LOCATIONS

BENBOW MAINTENANCE PROJECT

DSL/AMRB 94-M04



⊗ 0.3 ⊗
DISTANCE BETWEEN
MILE MARKERS

0 500 1000
SCALE IN FEET
CONTOUR INTERVAL - 40 FT

N

PATENTED CLAIMS

- 1 BIG SEVEN CLAIM
- 2 MAJESTIC CLAIM
- 3 TITANIC CLAIM
- 4 BLACK ROCK CLAIM
- 5 ECLIPSE CLAIM
- 6 LUCKY STRIKE CLAIM
- 7 WAR EAGLE CLAIM

LANDOWNER:
T5S, R15E, Section 25
T5S, R16E, Section 30 & 31
7 Patented Claims

Benbow Mines Ltd
c/o Ben Berg Jr
910 Technology Blvd. #A
Bozeman, MT 59715
404-586-6914

ADDITIONAL INFORMATION PERTAINING TO THIS SITE MAY EXIST IN THE DEPARTMENT OF STATE LANDS' FILES OR AT SPECTRUM ENGINEERING'S OFFICE. THIS MATERIAL IS AVAILABLE FOR REVIEW BY ANY INTERESTED PARTY

NOTICE

AN ABANDONED MINE UNDERLIES THIS SITE. MANY POTENTIAL HAZARDS EXIST. THE EXTENT OF THESE HAZARDS IS NOT FULLY KNOWN. CONTRACTORS AND OTHER PERSONS WORKING AT THE SITE SHALL APPRISE THEMSELVES OF THE CONDITIONS AND TAKE WHATEVER STEPS ARE DEEMED NECESSARY TO INSURE SAFETY WHILE PERFORMING THEIR DUTIES

SITE PLAN AND GENERAL LAYOUT

BENBOW MINE SITE
SECTION 25, T5S, R15E
SECTIONS 30 AND 31, T5S, R16E
STILLWATER COUNTY, MONTANA

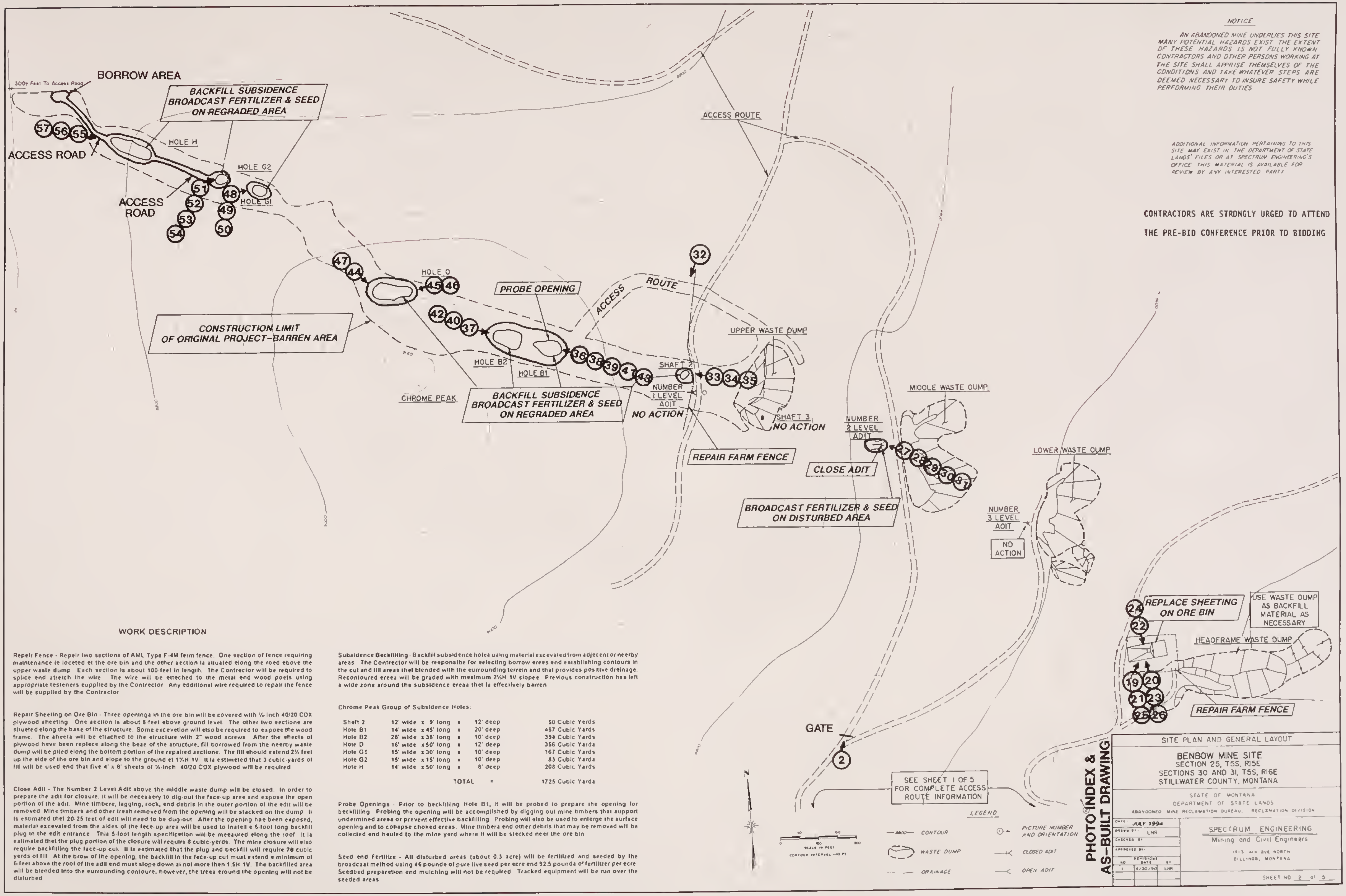
STATE OF MONTANA
DEPARTMENT OF STATE LANDS
ABANDONED MINE RECLAMATION BUREAU, RECLAMATION DIVISION

DATE: JULY 1994
DRAWN BY: LNR
CHECKED BY:
APPROVED BY:

REVISIONS NO	DATE	BY

SPECTRUM ENGINEERING
Mining and Civil Engineers
1413 4th AVE NORTH
BILLINGS, MONTANA

SHEET NO 1 of 5



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ADDITIONAL INFORMATION PERTAINING TO THIS SITE MAY EXIST IN THE DEPARTMENT OF STATE LANDS' FILES OR AT SPECTRUM ENGINEERING'S OFFICE THIS MATERIAL IS AVAILABLE FOR REVIEW BY ANY INTERESTED PARTY

CONTRACTORS ARE STRONGLY URGED TO ATTEND

THE PRE-BID CONFERENCE PRIOR TO BIDDING

WORK DESCRIPTION

Repair Fence - Repair two sections of AML Type F-4M farm fence. One section of fence requiring maintenance is located at the ore bin and the other section is situated along the road above the upper waste dump Each section is about 100-feet in length. The Contractor will be required to splice and stretch the wire The wire will be attached to the metal and wood posts using appropriate fasteners supplied by the Contractor Any additional wire required to repair the fence will be supplied by the Contractor

Repair Sheeting on Ore Bin - Three openings in the ore bin will be covered with ⅝-inch 40/20 CDX plywood sheeting One section is about 8-feet above ground level. The other two sections are situated along the base of the structure. Some excavation will also be required to expose the wood frame. The sheets will be attached to the structure with 2" wood screws After the sheets of plywood have been replace along the base of the structure, fill borrowed from the nearby waste dump will be piled along the bottom portion of the repaired sections. The fill should extend 2½ feet up the side of the ore bin and slope to the ground at 1½H 1V It is estimated that 3 cubic-yards of fill will be used and that five 4' x 8' sheets of ⅝-inch 40/20 CDX plywood will be required

Close Adit - The Number 2 Level Adit above the middle waste dump will be closed. In order to prepare the adit for closure, it will be necessary to dig-out the face-up area and expose the open portion of the adit. Mine timbers, lagging, rock, and debris in the outer portion of the adit will be removed Mine timbers and other trash removed from the opening will be stacked on the dump It is estimated that 20-25 feet of adit will need to be dug-out After the opening has been exposed, material excavated from the sides of the face-up area will be used to install a 6-foot long backfill plug in the adit entrance This 5-foot length specification will be measured along the roof. It is estimated that the plug portion of the closure will require 8 cubic-yards. The mine closure will also require backfilling the face-up cut. It is estimated that the plug and backfill will require 78 cubic yards of fill At the brow of the opening, the backfill in the face-up cut must extend a minimum of 6-feet above the roof of the adit and must slope down at not more than 1.5H 1V. The backfilled area will be blended into the surrounding contours; however, the trees around the opening will not be disturbed

Subsidence Backfilling - Backfill subsidence holes using material excavated from adjacent or nearby areas The Contractor will be responsible for selecting borrow areas and establishing contours in the cut and fill areas that blended with the surrounding terrain and that provides positive drainage. Recontoured areas will be graded with maximum 2½H 1V slopes Previous construction has left a wide zone around the subsidence areas that is effectively barren

Chrome Peak Group of Subsidence Holes:

Shaft 2	12' wide	x 9' long	x	12' deep	50 Cubic Yards
Hole B1	14' wide	x 45' long	x	20' deep	467 Cubic Yards
Hole B2	28' wide	x 38' long	x	10' deep	39a Cubic Yards
Hole D	16' wide	x 50' long	x	12' deep	356 Cubic Yards
Hole G1	15' wide	x 30' long	x	10' deep	167 Cubic Yards
Hole G2	15' wide	x 15' long	x	10' deep	83 Cubic Yards
Hole H	14' wide	x 50' long	x	8' deep	208 Cubic Yards
		TOTAL	=		1725 Cubic Yards

Probe Openings - Prior to backfilling Hole B1, it will be probed to prepare the opening for backfilling Probing the opening will be accomplished by digging out mine timbers that support undermined areas or prevent effective backfilling Probing will also be used to enlarge the surface opening and to collapse choked areas. Mine timbers and other debris that may be removed will be collected and hauled to the mine yard where it will be stacked near the ore bin

Seed and Fertilize - All disturbed areas (about 0.3 acre) will be fertilized and seeded by the broadcast method using 46 pounds of pure live seed per acre and 92.5 pounds of fertilizer per acre Seedbed preparation and mulching will not be required Tracked equipment will be run over the seeded areas

PHOTO INDEX &
AS-BUILT DRAWING

SITE PLAN AND GENERAL LAYOUT

BENBOW MINE SITE
SECTION 25, T5S, R15E
SECTIONS 30 AND 31, T5S, R16E
STILLWATER COUNTY, MONTANA

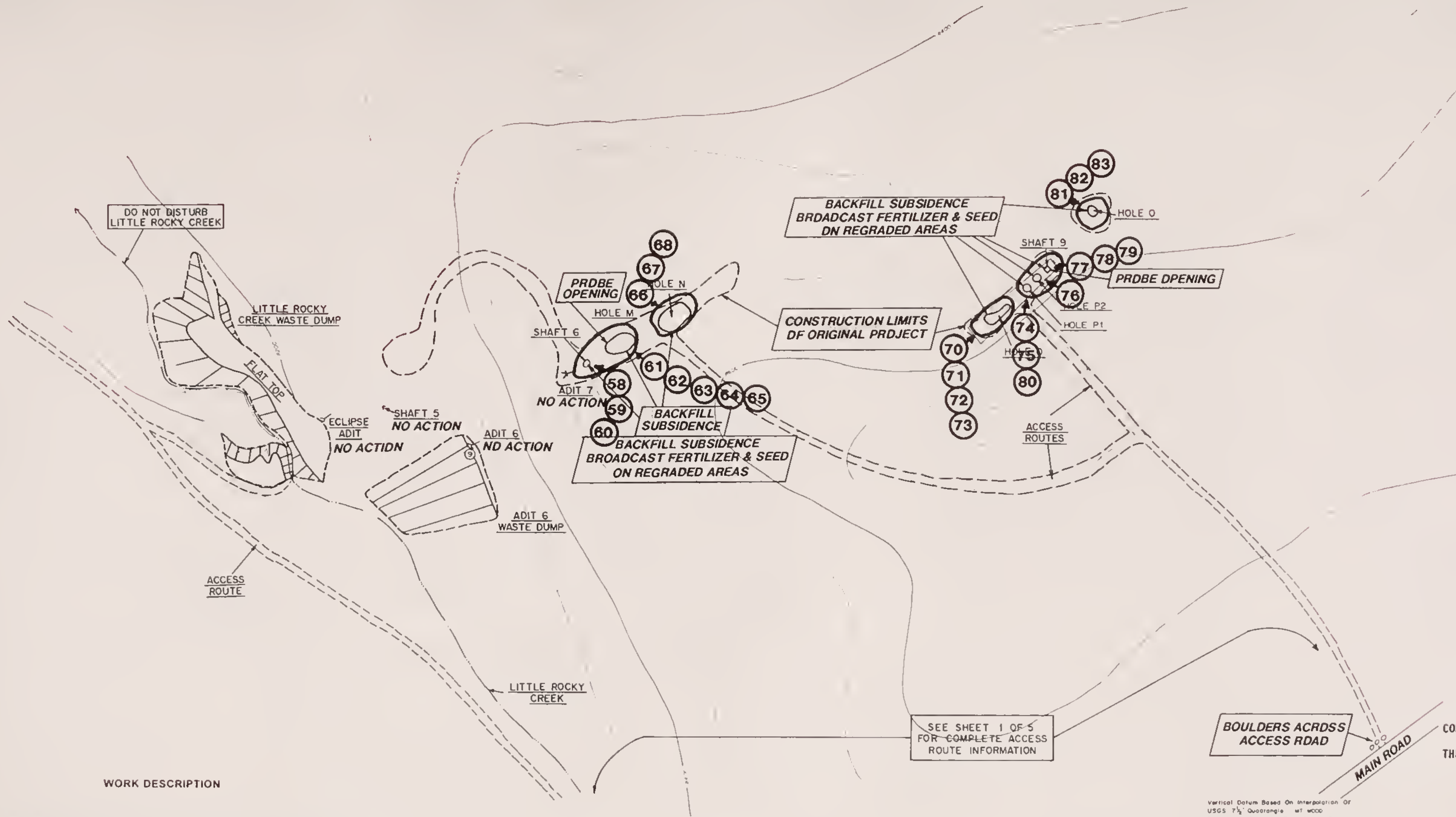
STATE OF MONTANA
DEPARTMENT OF STATE LANDS
ABANDONED MINE RECLAMATION BUREAU, RECLAMATION DIVISION

DATE: JULY 1994
DRAWN BY: LNR
CHECKED BY:
APPROVED BY:

REVISIONS NO	DATE	BY
1	4/30/95	LNR

SPECTRUM ENGINEERING
Mining and Civil Engineers
1613 4th AVE NORTH
BILLINGS, MONTANA

SHEET NO 2 of 5



VEHICLE TRAVEL WILL BE LIMITED
TO ROUTES FLAGGED ON-SITE BY
THE PROJECT ENGINEER.

CONTRACTORS ARE STRONGLY URGED TO ATTEND
THE PRE-BID CONFERENCE PRIOR TO BIDDING

WORK DESCRIPTION

Subsidence Backfilling - Backfill subsidence holes using material excavated from adjacent or nearby areas. The Contractor will be responsibe for selecting borrow areas and establishing contours in the cut and fill areas that blended with the surrounding terrain and that provides positive drainage. Recontoured areas will be graded with maximum 2½H:1V slopes. Previous construction has left a wide zone around the subsidence areas that is effectively barren.

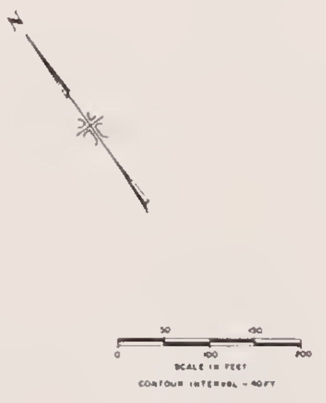
Little Rocky Creek Group of Subsidence Holes:

Shaft 6	10' wide x 1d' long x 8' deep	30 Cubic Yards
Hole M	28' wide x 50' long x 5d' deep	2595 Cubic Yards
Hole N	40' wide x 40' long x 15' deep	889 Cubic Yards
Hole O	30' wide x 75' long x 15' deep	1250 Cubic Yards
Hole P1	10' wide x 10' long x 100' deep	37 Cubic Yards
Hole P2	5' wide x 5' long x 4' deep	4 Cubic Yards
Shaft 9	6' wide x 1d' long x 100' deep	255 Cubic Yards
Hole Q	1d' wide x 1d' long x 4' deep	15 Cubic Yards
	TOTAL =	5075 Cubic Yards

Probe Openings - Prior to backfilling Hole M and Shaft 9, these openings will be probed to prepare the opening for backfilling. Probing the opening will be accomplished by digging out mine timbers that support undermined areas or prevent effective backfilling. Probing will also be used to enlarge the surface opening and to collapse choked areas. Mine timbers and other debris that may be removed will be collected and hauled to the mine yard where it will be stacked near the ore bin.

Seed and Fertilize - All disturbed areas (about d.7 acre) will be fertilized and seeded by the broadcast method using 46 pounds of pure live seed per acre and 92.5 pounds of fertilizer per acre. Seedbed preparation and mulching will not be required. Tracked equipment will be run over the seeded areas.

Vertical Datum Based On Interpolation Of
USGS 7½' Quadrangle at WOOD
Topography Prepared From Ground Survey
Conducted In 1988 By Spectrum Engineering
Using A Plane Table And Alidade. This
Topography Is Of Reconnaissance Class
And Has Not Been Field Checked



LEGEND

CONTOUR
WASTE DUMP
DRAINAGE
PICTURE NUMBER AND ORIENTATION
CLOSED ADIT
OPEN ADIT

NOTICE

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PHOTO INDEX & AS-BUILT DRAWING

SITE PLAN AND GENERAL LAYOUT

BENBOW MINE SITE
SECTION 25, T5S, R15E
SECTIONS 30 AND 31, T5S, R16E
STILLWATER COUNTY, MONTANA

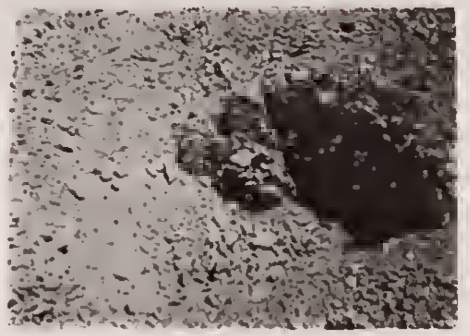
STATE OF MONTANA
DEPARTMENT OF STATE LANDS
ABANDONED MINE RECLAMATION BUREAU, RECLAMATION DIVISION

DATE: JULY 1994
DRAWN BY: LNR
CHECKED BY:
APPROVED BY:

REVISIONS NO	DATE	BY
1	3/1990	LNR
2	4/30/90	LNR

SPECTRUM ENGINEERING
Mining and Civil Engineers
1413 4th AVE NORTH
BILLINGS, MONTANA

SHEET NO 3 of 5


Backfill Subsidence Shaft 6

Backfill Subsidence Hole M

Backfill Subsidence Hole N

Backfill Subsidence Hole O

Probe to remove timbers & backfill Shaft 9

Probe to remove timbers from Hole M

Backfill Subsidence Hole P1

Backfill Subsidence Hole P2

Backfill Subsidence Hole O

Backfill Subsidence Shaft 2

Probe opening & backfill Subsidence Hole B1

Backfill Subsidence Hole B2

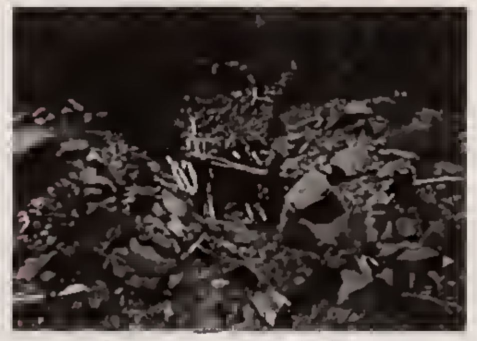
Backfill Subsidence Hole D

Backfill Subsidence Hole G1

Backfill Subsidence Hole G2

Backfill Subsidence Hole H

Repair fence above Upper Waste Dump


Close Number 2 Level Adit

Replace plywood sheeting to cover the opening in the ore bin.

Repair section and fill along base of Ore Bin

PHOTO SHEET

BENBOW MINE SITE
SECTION 25, T5S, R15E
SECTIONS 30 & 31, T5S, R16E
STILLWATER COUNTY, MONTANA

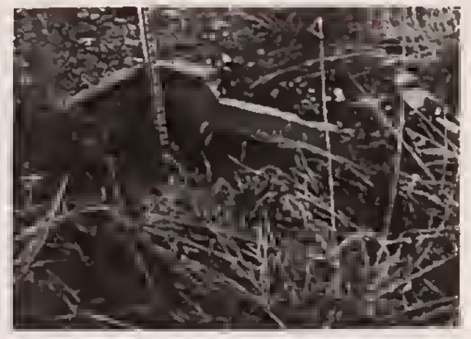
STATE OF MONTANA
DEPARTMENT OF STATE LANDS
ABANDONED MINE RECLAMATION BUREAU   RECLAMATION DIVISION

DATE JULY 1994
DRAWN BY
CHECKED BY
APPROVED BY

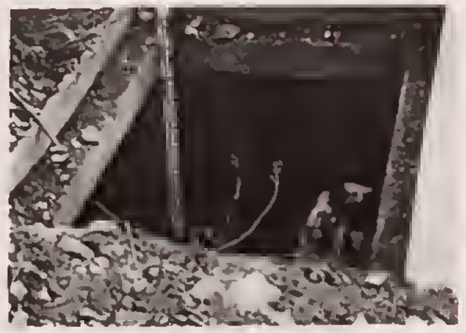
REVISIONS		
NO	DATE	BY

SPECTRUM ENGINEERING
Mining and Civil Engineers
[illegible] 4TH AVE NORTH
BILLINGS, MONTANA

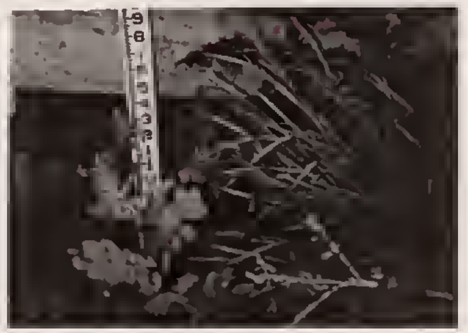
SHEET NO 4 of 5



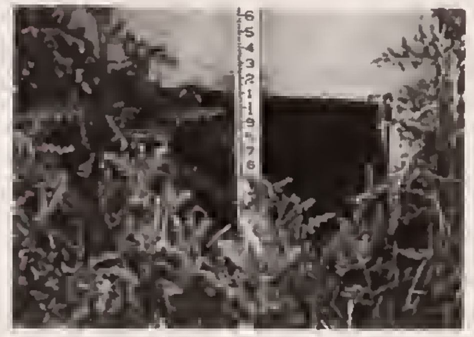
Picture of Mill Hole #1



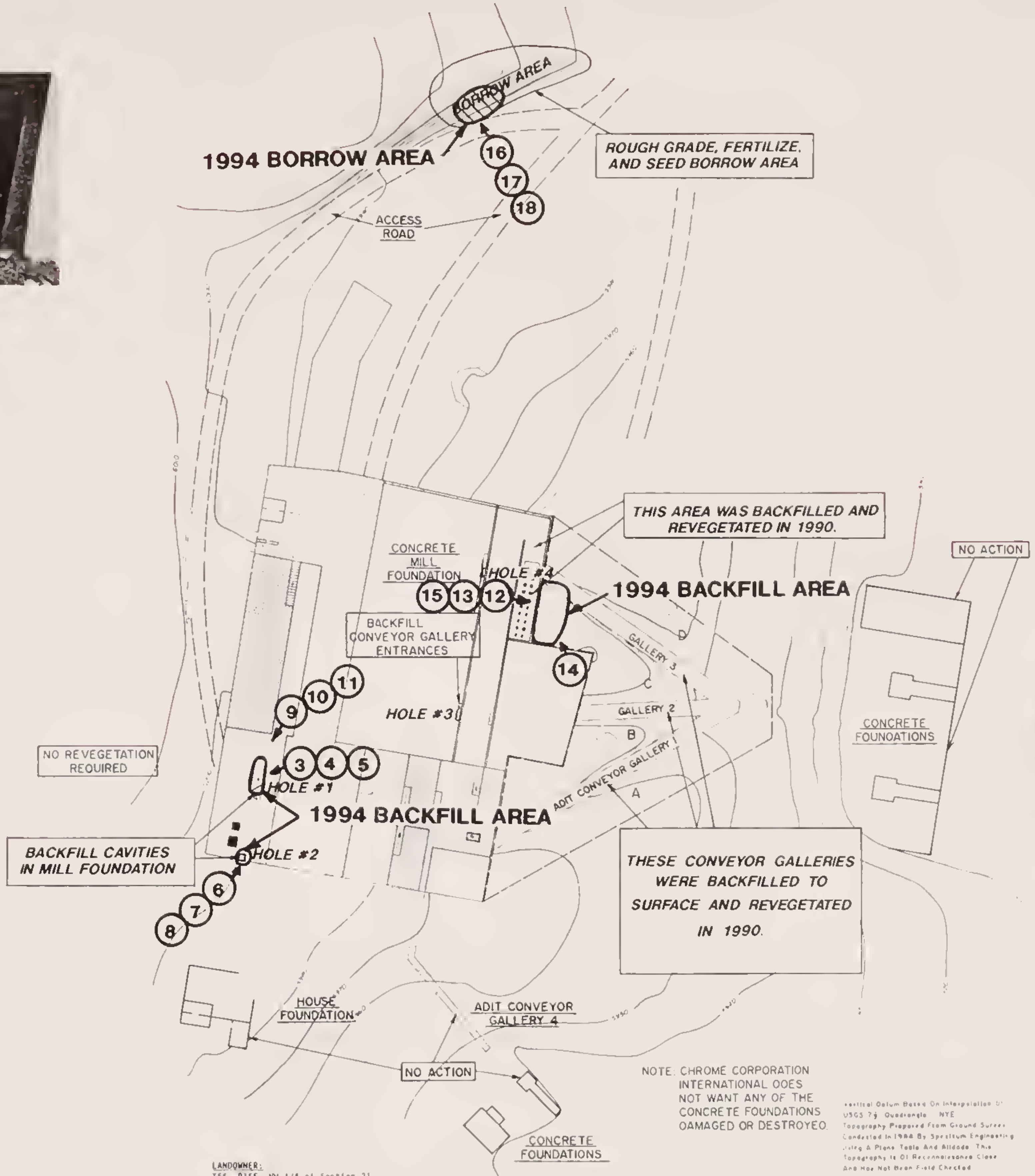
Picture of Mill Hole #2



Picture of Mill Hole #3



Picture of Mill Hole #4



NOTE: CHROME CORPORATION INTERNATIONAL OOES NOT WANT ANY OF THE CONCRETE FOUNDATIONS OAMAGED OR DESTROYEO.

Vertical Datum Based On Interpolation Of USGS 7½ Quadrangle NYE
Topography Prepared From Ground Survey Conducted In 1988 By Spectrum Engineering Using A Plane Table And Alidade. This Topography Is Of Reconnaissance Class And Has Not Been Field Checked

WORK DESCRIPTION

Mill Foundation Backfill - Backfill Holes #1, #2, #3, and #4 to the level of the original fill using material from the designated borrow area. It is estimated that a total of 11 cubic-yards of fill material will be required. The holes are associated with chambers in the mill foundation which are at least partially covered by concrete decking. In order to fill these holes, it will be necessary to push the fill material inside the chambers and to fill the chambers to the degree possible. The foundation and/or foundation decking must not be damaged. All backfill will be compacted and graded to blend with the adjacent fill. No revegetation will be required on the backfilled areas. The borrow area will be rough graded and blended with the surrounding topography. Regraded slopes on the borrow area will not exceed 1.5H:1V.

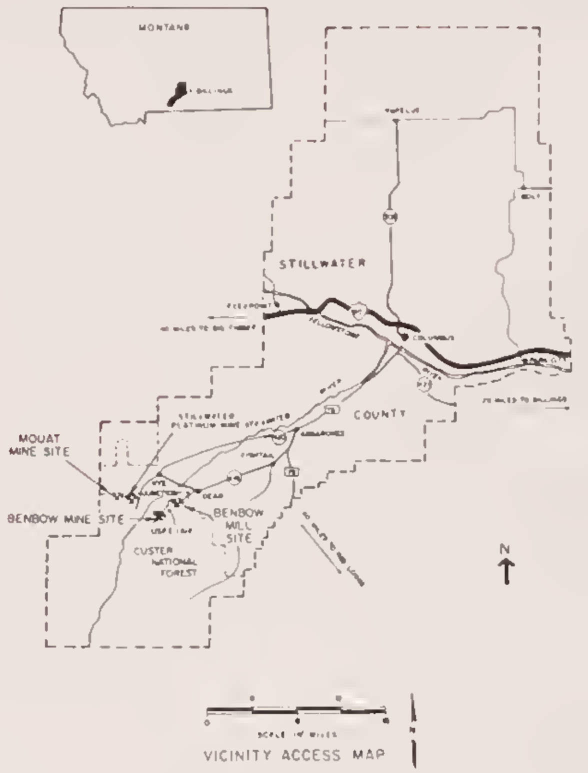
Seed and Fertilize - The Contractor will broadcast seed the borrow area at the rate of 46 pounds of Pure-Live-Seed per acre and fertilize the borrow area at the rate of 92.5 pounds per acre. It is anticipated that the borrow area will be less than 0.01 acre. Mulch will not be required.

LANDOWNER:
T5S, R16E, NW 1/4 of Section 21

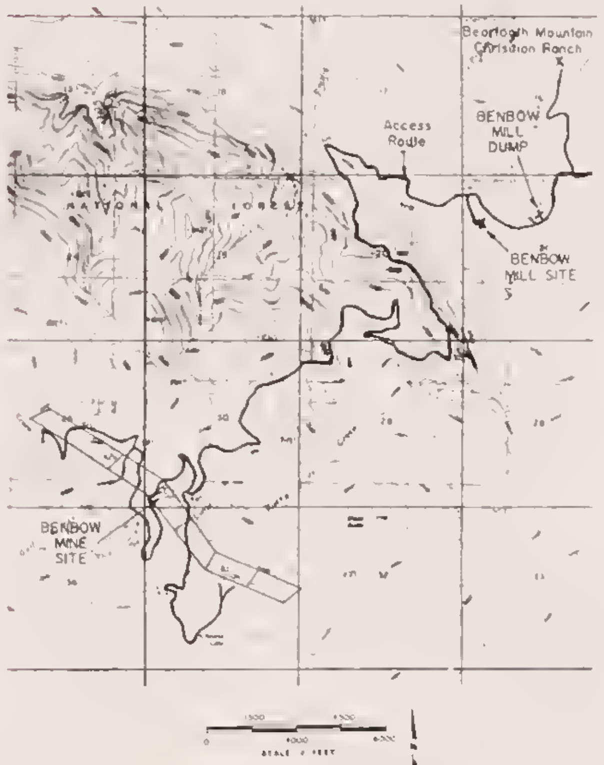
U.S. Government
Custer National Forest
U.S. Forest Service
c/o George Weldon
Box 3420, Route 2
Red Lodge, MT 59068
Phone: 406/446-2103

MINERAL CLAIMANT:
Unpatented Lode Claims
Named Mate 1 through 21
Chrome Corp. International
c/o John Sellar
Vice-President-Operations
12640 W. Cedar Drive
Suite B
Lakewood, CO 80228
Phone: 303/969-8903

SCALE 1" = FEET
CONTOUR INTERVAL 2 FT



VICINITY ACCESS MAP



SITE LOCATION MAP

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NOTICE

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PHOTO INDEX & AS-BUILT DRAWING

SITE PLAN AND GENERAL LAYOUT

BENBOW MILL

SECTION 21, T5S, R16E
STILLWATER COUNTY, MONTANA

STATE OF MONTANA
DEPARTMENT OF STATE LANDS
ABANDONED MINE RECLAMATION BUREAU, RECLAMATION DIVISION

DATE	JULY 1994
DRAWN BY	
CHECKED BY	
APPROVED BY	

REVISIONS NO	DATE	BY

SPECTRUM ENGINEERING
Mining and Civil Engineers
1413 4th AVE NORTH
BILLINGS, MONTANA

SHEET NO 5 OF 5

BENBOW MAINTENANCE PROJECT
PHOTO DESCRIPTIONS

ASSIGNED NUMBER	DATE TAKEN	SUBJECT OR COMMENTS
BENBOW MILL SITE		
1	10-11-94	John Deere 755 track loader.
2	10-11-94	New padlock on gate to top of mine area.
3	06-22-94	Pre-construction of mill foundation hole 1.
4	10-11-94	Backfilling mill foundation hole 1.
5	10-11-94	Backfilled mill foundation hole 1.
6	06-22-94	Pre-construction view of foundation hole 2.
7	10-11-94	Backfilling foundation hole 2.
8	10-11-94	Backfilled foundation hole 2.
9	06-22-94	Pre-construction view of foundation hole 3.
10	10-11-94	Load of backfill to cover hole 3.
11	10-11-94	Backfilled foundation hole 3.
12	06-22-94	Pre-construction of foundation hole 4.
13	10-11-94	Dumping material over foundation hole 4.
14	10-11-94	Ramp to fill foundation hole 4.
15	10-11-93	Backfilled foundation hole 4.
16	10-11-93	Pre-construction of backfill material borrow source.
17	10-11-94	Removing borrow material from hillside.
18	10-11-94	Borrow source graded.

BENBOW MAINTENANCE PROJECT
PHOTO DESCRIPTIONS

ASSIGNED NUMBER	DATE TAKEN	SUBJECT OR COMMENTS
BENBOW MINE SITE		
19	10-11-94	Pre-construction view of south side of headframe.
20	10-11-94	Pre-construction close-up view of south side of headframe.
21	10-11-94	Close-up view of lower portion of headframe.
22	10-11-94	Pre-construction view of north side of headframe.
23	10-15-94	View of secured south side of headframe.
24	10-15-94	View of secured north side of headframe.
25	06-22-94	Pre-construction view of damaged fence.
26	10-15-94	View of repaired fence around headframe.
27	06-22-94	Pre-construction view of #2 Level Adit.
28	06-22-94	Pre-construction view of #2 Level Adit.
29	10-12-94	#2 Level Adit ready for probing.
30	10-12-94	Backfilling #2 Level Adit.
31	10-12-94	Backfilled #2 level Adit.
32	06-22-94	Damaged fence above upper waste dump to be repaired.
33	10-12-94	Pre-construction view of Shaft #2.
34	06-22-94	Pre-construction view of Shaft #2.
35	10-12-94	Shaft #2 after backfilling.
36	10-12-94	Pre-construction of Hole B.
37	06-22-94	Pre-construction of Hole B.
38	06-22-94	Pre-construction view of lower half of Hole B.
39	06-22-94	Pre-construction view of Hole B.

BENBOW MAINTENANCE PROJECT
PHOTO DESCRIPTIONS

ASSIGNED NUMBER	DATE TAKEN	SUBJECT OR COMMENTS
40	06-22-94	Pre-construction view of upper half of Hole B.
41	10-12-94	View of Hole B after partial backfilling.
42	10-12-94	View of upper half of Hole B being filled.
43	10-12-94	View of Hole B after backfilling is complete.
44	06-22-94	Pre-construction view of Hole D.
45	06-22-94	Pre-construction view of Hole D.
46	10-11-94	Backfilling Hole D.
47	10-11-94	Backfilling Hole D.
48	10-12-94	Pre-construction view of Hole G1.
49	06-22-94	Pre-construction view of Hole G1.
50	10-11-94	Backfilling Hole G1.
51	10-11-94	Backfilled Hole G1 and Hole G2.
52	10-11-94	Pre-construction view of Hole G2.
53	06-22-94	Pre-construction view of Hole G2.
54	06-22-94	Pre-construction of Hole G2.
55	06-22-94	Pre-construction view of Hole H.
56	10-11-94	Backfilling Hole H.
57	10-11-94	Backfilled Hole H.
58	10-11-94	Pre-construction of Shaft 6.
59	06-22-94	Pre-construction of Shaft 6.
60	10-12-94	Shaft 6 after backfilling is complete.
61	10-12-94	Pre-construction of Hole M.

BENBOW MAINTENANCE PROJECT
PHOTO DESCRIPTIONS

ASSIGNED NUMBER	DATE TAKEN	SUBJECT OR COMMENTS
62	06-22-94	Pre-construction of Hole M.
63	06-22-94	Pre-construction of Hole M.
64	10-12-94	Probing and backfilling Hole M.
65	10-13-94	Hole M after backfilling complete.
66	06-22-94	Pre-construction of Hole N.
67	06-22-94	Pre-construction of Hole N.
68	10-13-94	Probe and backfill of Hole N.
69	10-13-94	Backfilled Hole N.
70	06-22-94	Pre-construction of Hole O.
71	06-22-94	Pre-construction of Hole O.
72	10-13-94	Backfilling Hole O.
73	10-13-94	Backfilled Hole O.
74	06-22-94	Pre-construction of Hole P1.
75	06-22-94	Pre-construction of Hole P1.
76	06-22-94	Pre-construction of Hole P2.
77	10-13-94	Pre-construction of Shaft #9.
78	10-13-94	Pre-construction of Shaft #9.
79	10-13-94	Probing Shaft #9.
80	10-13-94	Holes P1, P2 and Shaft #9 after backfilling.
81	10-13-94	Pre-construction of Hole Q.
82	06-22-94	Pre-construction of Hole Q.
83	10-13-94	Backfilled Hole Q.

BENBOW MAINTENANCE PROJECT

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BENBOW MAINTENANCE PROJECT
DSL-AMRB 94-M04

Before, during and after construction photographs.
Photo descriptions are found in the final report.
Construction period: 10/10/94-10/16/94

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